

Work Order ID 156674***156674***

Page 1

Monday, February 06, 2017 1:04:48 PM

Item ID: D4042-043 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Rib Assembly
Start Date: 3/8/2017 Start Qty: 2.00 ***2*** Cust Item ID:
Required Date: 3/20/2017 Req'd Qty: 2.00 ***2*** Customer:
Reference:

Approvals: Process Plan: DAS 21 Date: FEB 07 2017 Tooling: _____ Date: _____ Run Start ***NR1***
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4042	A

100 Weld per dwg A/R S.S. rod Batch: M134442 0.00***100***

Large Fab

Large Fab

Memo

0.21

- 1- Cut D4042-3 as per dwg D4042
- 2- Drill and chamfer holes as per dwg D4042
- 3- Remove identification markings
- 4- Weld bushing in rib and grind weld flush as per dwg D4042

~~DAS~~
~~9-89~~

MAR 17 2017

2x DG 2017/03/09CS

110

QC5- Inspect part completeness to step on W/O 0.00

110

QC

Quality Control

Memo

0.01

2

MAR 22 2017

24

DAS
24
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																															
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Page 2

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Item ID: D4042-043 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Rib Assembly
Start Date: 3/8/2017 Start Qty: 2.00 ***2*** Cust Item ID:
Required Date: 3/20/2017 Req'd Qty: 2.00 ***2*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC10- Inspect visual per QSI004- ground welds Memo	0.00 0.00				<u>2</u>		MAR 4 2 2017 <u>24</u>	DAS 24 9-89
130 *130* Packaging Packaging	Identify as per dwg & Stock Location: <u>W4</u> Memo	0.00 0.00				<u>2</u>		MAR 4 2 2017 <u>24</u>	DAS 24 9-89
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.03						<u>17/3/28</u> <u>df</u>	

P.A. 2017/03/27

DAS
21
9-89

MAR 27 2017

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Monday, February 06, 2017 1:04:48 PM

Page 1

Work Order ID: 156674

156674

Parent Item: D4042-043

D4042-043

Parent Item Name: Aft Rib Assembly

Start Date: 3/8/2017

Required Date: 3/20/2017

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP RevA: new issue DD 10.01.07 verified by:EC IPP Rev:B as per dwg
revA DD 10.02.18 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
✓ D4021-9 *D4021-9* Bushing		Manufactured	No			100	Each	48.0000	2	4		MAR 4 2 2017	DAS 24 9-89

**

Location

Loc Qty

Loc Code

WA004

48

145800

2

154962

46

B155371 → 4

✓ M304TS0.750W.049

Purchased

No

100

f

669.5670

2.04166

4.298232

M304TS0 750W 049

304 SQ Tube .75x.75x.049W

**

SG 2017/03/08

Location

Loc Qty

Loc Code

WA004

669.567

M134940

38

M135226

8.461

M135711

65

M135899

161.906

M135996

17.9

M136378

378.3

B136378 → 7

DQA: _____ Date: _____

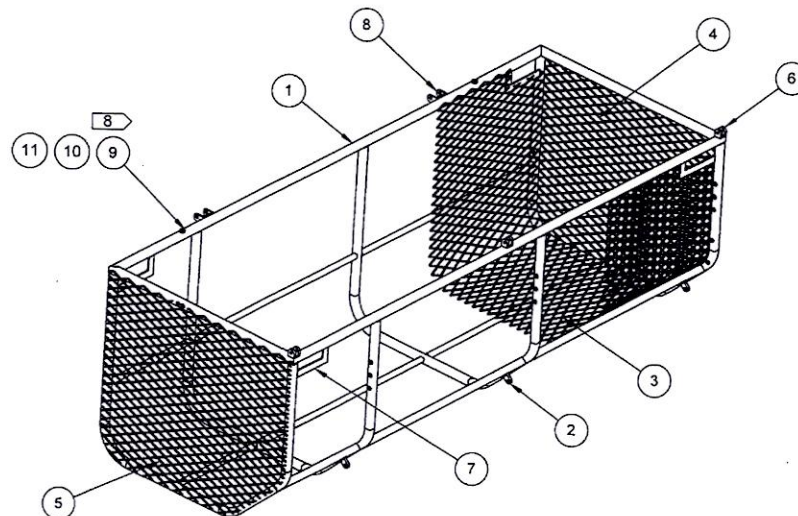
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
300 AS 28-B									

Root Cause				FAULT CATEGORY			
☐ Environment	☐ No Re-verification	☐ Pressure/Forced	☐ Temperature/Cure	☐ Power Loss/Surge	☐ Positioned Wrong		
☐ Design	☐ Operator	☐ Bending	☐ Set-up	☐ Folio/Program	☐ Outside Dimensions		
☐ Doc/Data	☐ Offset/Setup	☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance		
☐ Equip/Tooling	☐ Supplier	☐ Cracks	☐ Broken/Damage/Defect	☐ Weld	☐ Part Incorrect		
☐ Handling/Pre	☐ Training	☐ Crimp/Kink/Ripple/Wave	☐ Inspection Incomplete/Unqualified	☐ Wrong Stock Pulled	☐ Part Lost/Missing		
☐ Material	☐ Use for Testing	☐ Cuffs	☐ Contamination	☐ Out of Sequence	☐ Part Moved		
☐ Internal Transport	☐ Poor Information	☐ Crushing	☐ Countersink	☐ Off-set	☐ Drawing		
☐ Tribal Knowledge	☐ Rushing	☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Finish		
☐ LOA	☐ Product Improvement	☐ Wave/Twist in Tube	☐ Instructions Incomplete/Unclear	☐ Fit/Function	☐ Misread		
☐ Substation	☐ Process Improvement	☐ Marks/Chatter	☐ Drill Holes	☐ Misaligned/off center	☐ Turning Sequence		
☐ Past Expiry Date	☐ Manufacturing Process	OTHER : _____					
☐ Misidentified	☐ Past Due						



D4042-041 SHORT BASKET ASSY, LH
(MESH SHOWN LOCALLY FOR CLARITY)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 28.82 lbs APROX
- 8) INSTALL AFTER FINISH
- 9) TRIM LOCALLY AS REQUIRED TO CLEAR FASTENERS/STRUCTURE
- 10) WELD PER DART QSI 004

ITEM	QTY -041	P/N	DESCRIPTION
	X	D4042-041	SHORT BASKET BASE ASSY, LH
1	1	D4042-101	BASKET BASE FRAME ASSY, LH
2	3	D4045-1	LUG
3	1	D4046-1	MESH BASKET BASE
4	1	D4046-3	MESH FWD END
5	1	D4046-5	MESH AFT END
6	3	D4016-1	HINGE HALF, BASE
7	4	D4021-1	HANDLE PLATE
8	2	D2581	MOUNTING BRACKET
9	2	D2931	BUMPER
10	2	AN960JD8	WASHER
11	2	MS20600AD4W3	RIVET

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 156674 MLS
170207

RELEASED
2010-02-16
JMP

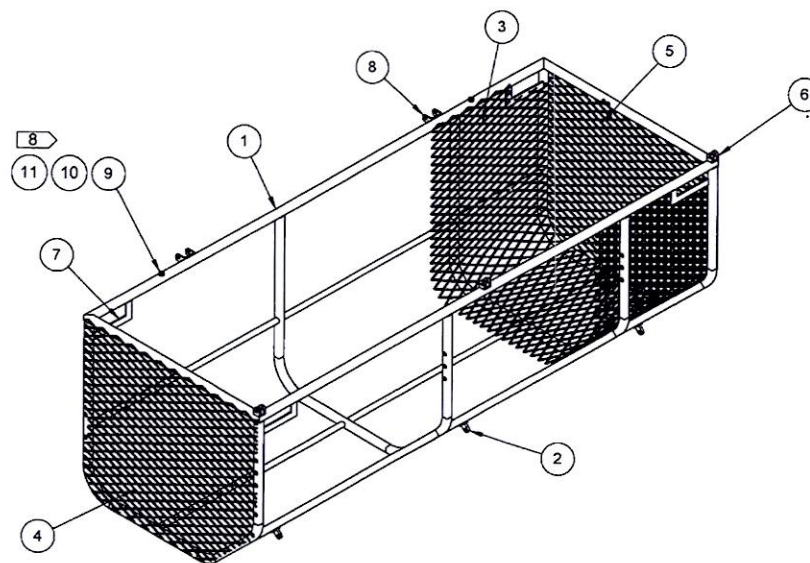
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REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	RF		
CHECKED	RF		
MFG. APPR.	RF		
APPROVED	RF		
DE APPR.	RF		
DATE	10.01.29		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4042** REV. A
TITLE **SHORT BASKET BASE ASSY** SCALE NTS
SHEET 1 OF 11

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WRITTEN PERMISSION FROM DART AEROSPACE LTD

ITEM	QTY -042	P/N	DESCRIPTION
	X	D4042-042	SHORT BASKET BASE ASSY, RH
1	1	D4042-102	BASKET BASE FRAME ASSY, RH
2	3	D4045-1	LUG
3	1	D4046-1	MESH BASKET BASE
4	1	D4046-3	MESH FWD END
5	1	D4046-5	MESH AFT END
6	3	D4016-1	HINGE HALF, BASE
7	4	D4021-1	HANDLE PLATE
8	2	D2581	MOUNTING BRACKET
9	2	D2931	BUMPER
10	2	AN960JD8	WASHER
11	2	MS20600AD4W3	RIVET



D4042-042 SHORT BASKET ASSY, RH
(MESH SHOWN LOCALLY FOR CLARITY)

NOTES:

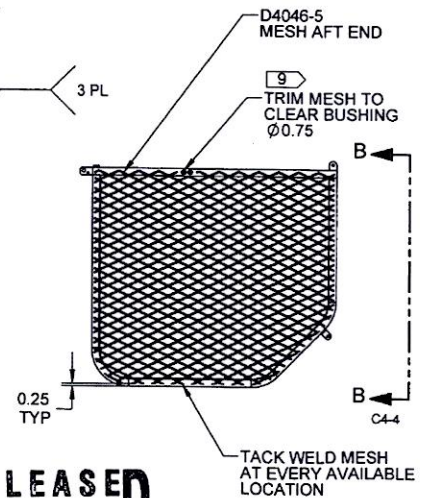
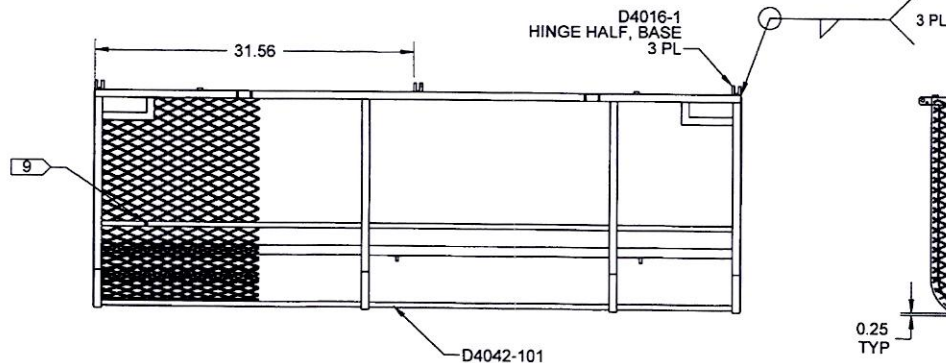
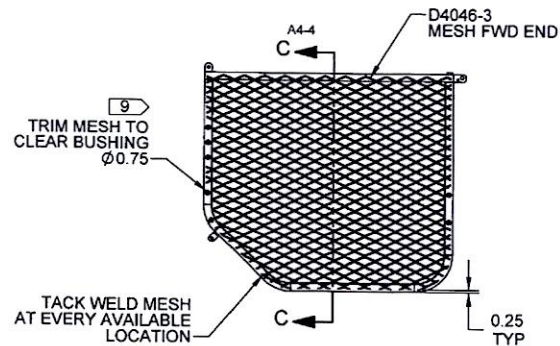
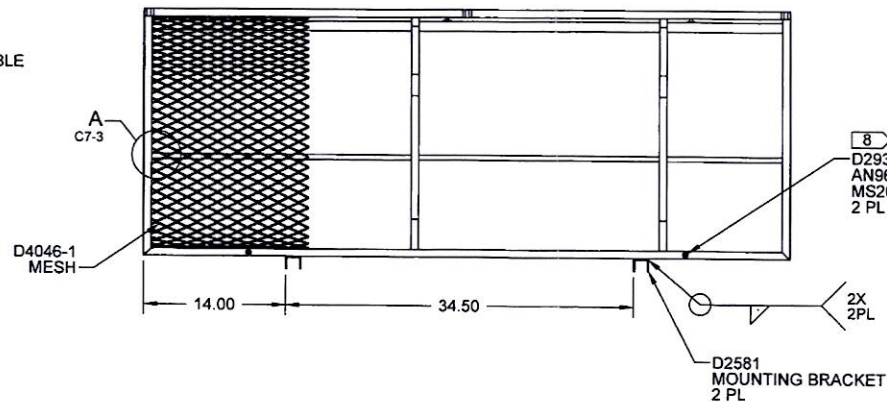
- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 28.82 lbs APROX
- 8) INSTALL AFTER FINISH
- 9) TRIM LOCALLY AS REQUIRED TO CLEAR FASTENERS/STRUCTURE
- 10) WELD PER DART QSI 004

RELEASED
2010-02-16
JM

DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.		D4042	SHEET 2 OF 11
APPROVED		TITLE	SCALE
DE APPR.		SHORT BASKET BASE ASSY	NTS
DATE	10.01.29	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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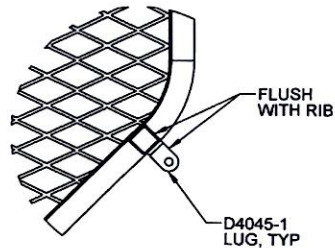
DETAIL A
SCALE 4X D6-3



D4042-041 SHORT BASKET ASSY. LH
(MESH SHOWN LOCALLY FOR CLARITY)

RELEASED
2010-02-16

DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	D4042	SHEET 3 OF 11
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SHORT BASKET BASE ASSY	NTS
DATE	10.01.29	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL. IT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



SECTION D-D D6-4
SCALE 2X, TYPICAL

D4044-5
AFT RIB
REF

D4044-043
CENTER RIB ASSY
REF

D4044-041
FWD RIB ASSY
REF

D4045-1
LUG, 3 PL

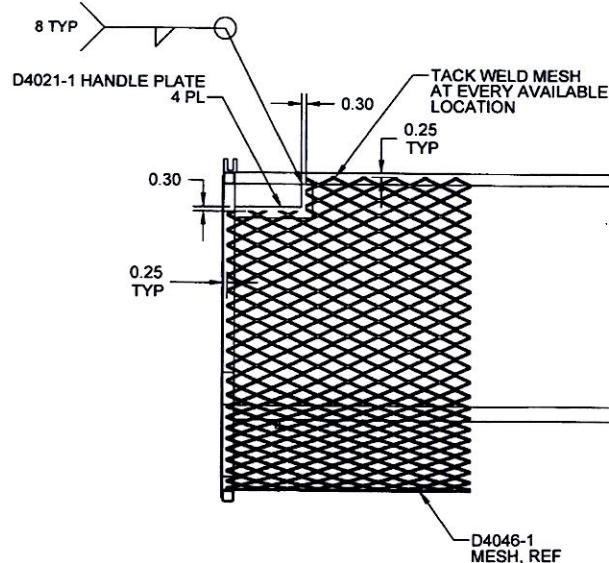
D C7-4

1.96

2.43

2.53

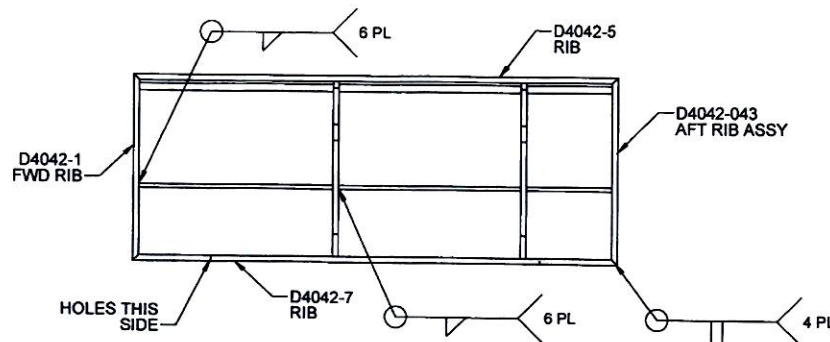
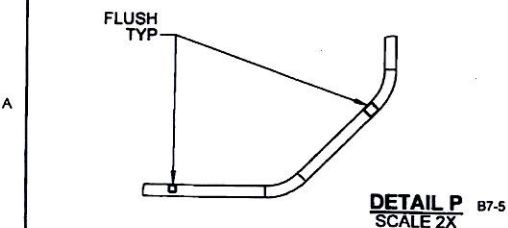
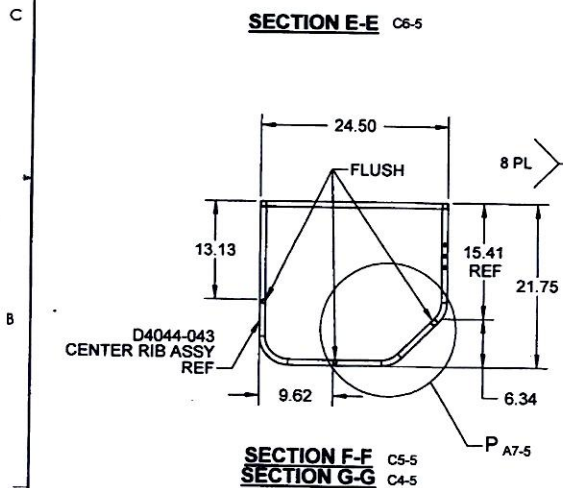
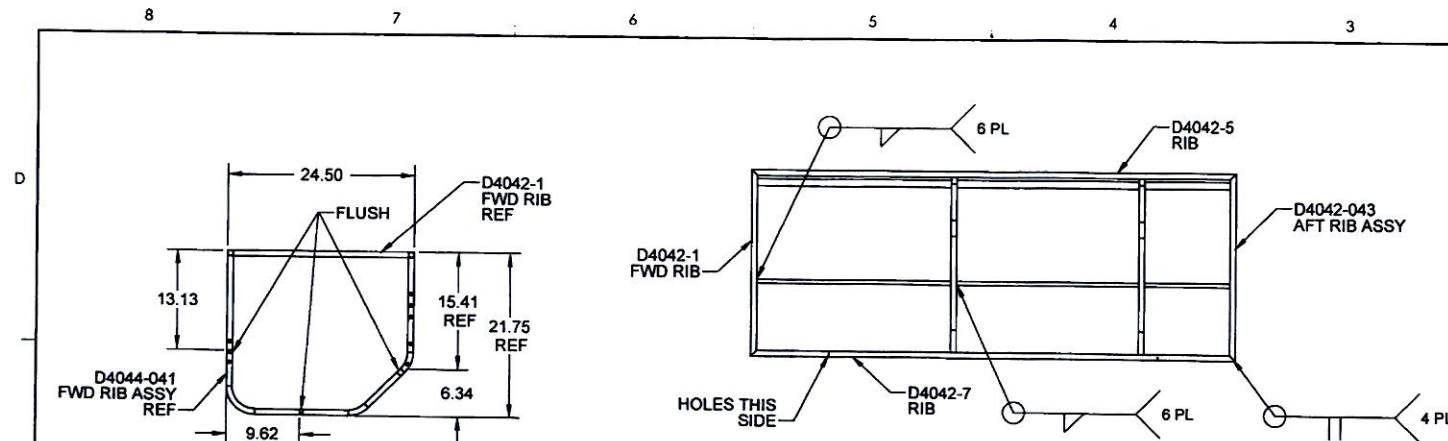
VIEW B-B B1-3
(MESH NOT SHOWN FOR CLARITY)
SCALE 3:2X



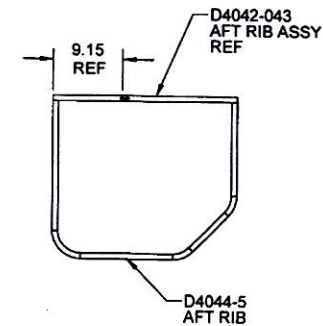
SECTION C-C C7-3
SIMILAR OPPOSITE VIEW
(MESH SHOWN LOCALLY FOR CLARITY)
SCALE 3:2X

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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4042	SHEET 4 OF 11
APPROVED		TITLE	SCALE
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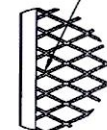
QTY -101	P/N	DESCRIPTION
X	D4042-101	BASKET BASE FRAME ASSY, LH
1	D4042-043	AFT RIB ASSY
1	D4043-041	FWD RIB ASSY
1	D4044-041	FWD RIB ASSY
2	D4044-043	CENTER RIB ASSY
1	D4042-1	FWD RIB
1	D4042-5	INBOARD RIB
1	D4042-7	OUTBOARD RIB
1	D4042-9	FWD RIB
1	D4042-11	CENTER RIB
1	D4042-13	AFT RIB
1	D4043-3	RIB
2	D4043-5	RIB
2	D4043-7	RIB
1	D4044-5	AFT RIB



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DRAWN	RF		SHEET 5 OF 11
CHECKED	GP		
MFG. APPR.	IS		
APPROVED	MP		
DE APPR.	MP		
DATE	10.01.29		

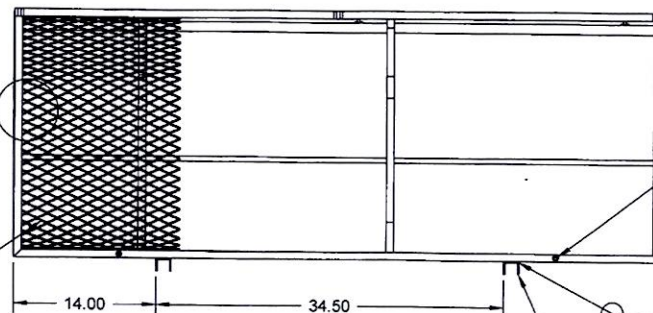
TACK WELD MESH
AT EVERY AVAILABLE
LOCATION



DETAIL H
SCALE 4X D6-6

H
D7-6

D4046-1
MESH

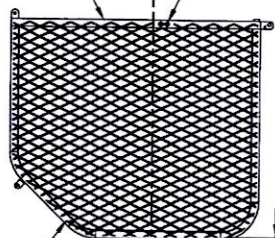


8
D2931 BUMPER
AN960JD8 WASHER
MS20600AD4W3 RIVET
2 PL

D2581
MOUNTING BRACKET
2 PL

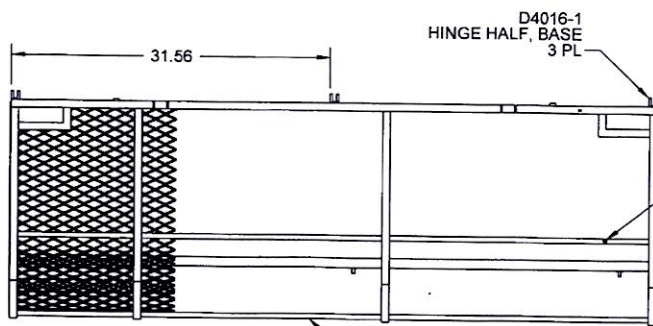
2X
2PL

9
D4046-5
MESH AFT END
A4-7
J
TRIM MESH TO
CLEAR BUSHING
Ø0.75



TACK WELD MESH
AT EVERY AVAILABLE
LOCATION

J
0.25
TYP



D4016-1
HINGE HALF, BASE
3 PL

3 PL

D4046-3
MESH FWD END

C4-7

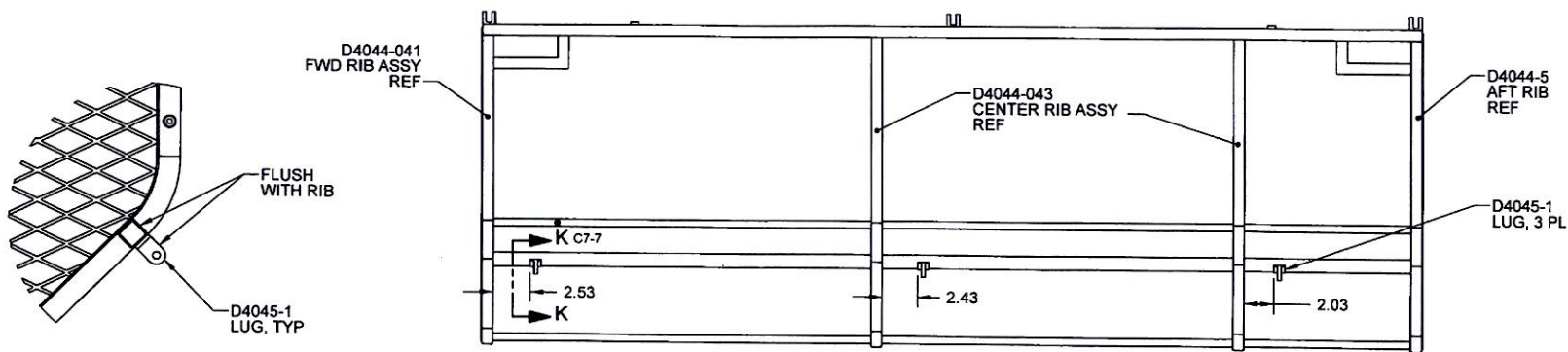
0.25
TYP

9
TRIM MESH TO
CLEAR BUSHING
Ø0.75

D4042-042 SHORT BASKET ASSY, RH
(MESH SHOWN LOCALLY FOR CLARITY)

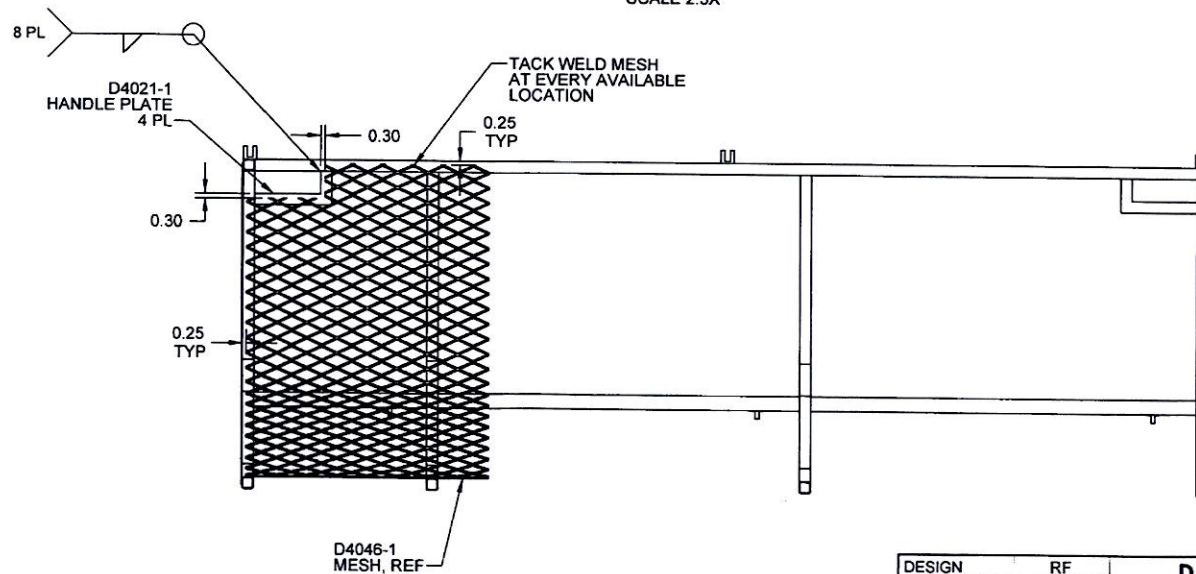
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MFG. APPR.	15	D4042	SHEET 6 OF 11
APPROVED	10	TITLE	SCALE
DE APPR.	11	SHORT BASKET BASE ASSY	NTS
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SECTION K-K
SCALE 2X, TYPICAL

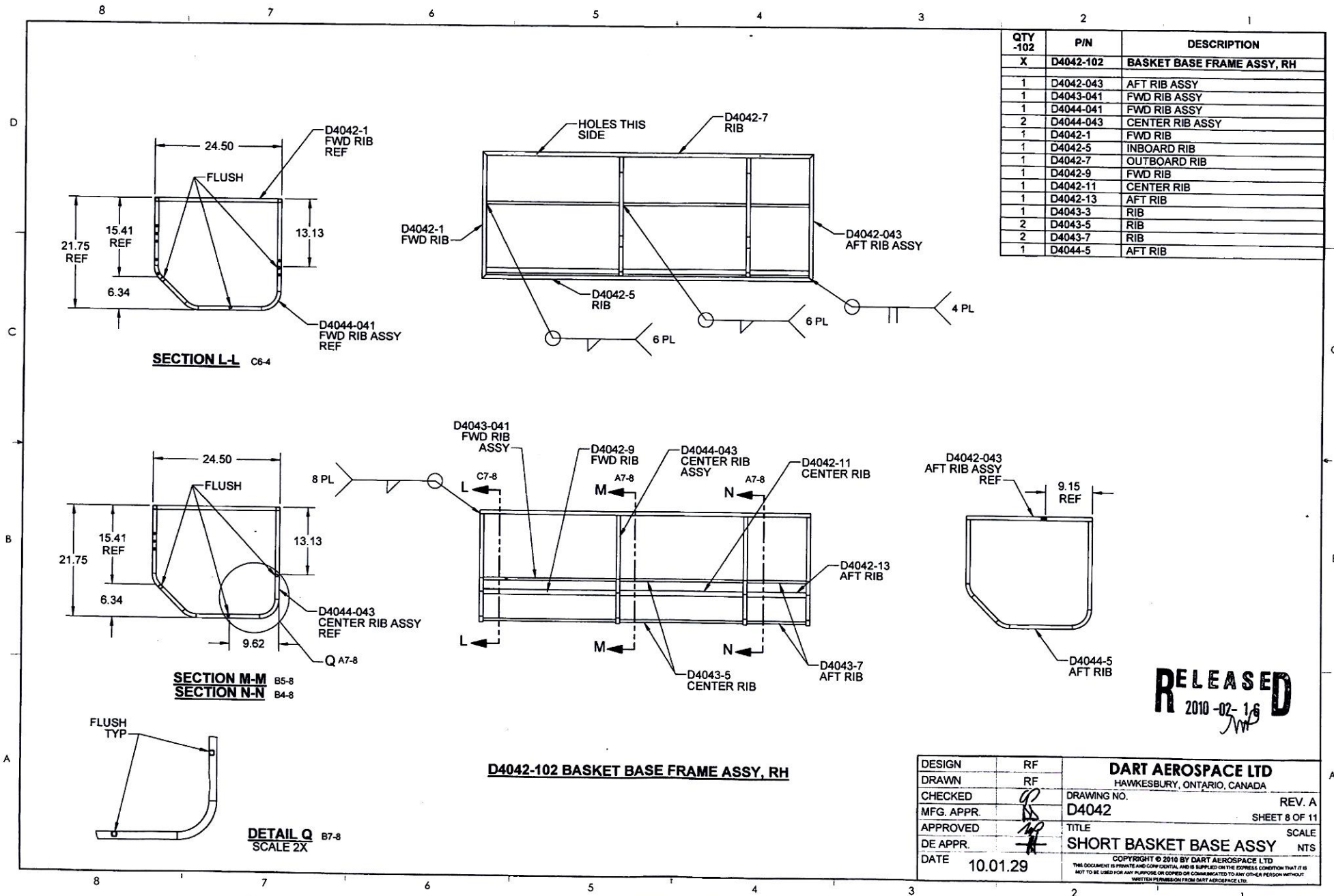
VIEW I-I
(MESH NOT SHOWN FOR CLARITY)
SCALE 2:3X



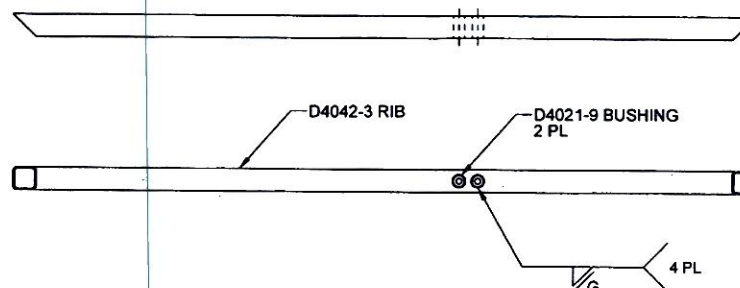
SECTION J-J
SIMILAR OPPOSITE VIEW
(MESH SHOWN LOCALLY FOR CLARITY)
SCALE 3:2X

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MFG. APPR.	<i>[Signature]</i>	D4042	SHEET 7 OF 11
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	SHORT BASKET BASE ASSY	NTS
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ITEM	QTY -043	P/N	DESCRIPTION
	X	D4042-043	RIB AFT ASSEMBLY
1	1	D4042-3	AFT RIB
2	2	D4021-9	BUSHING



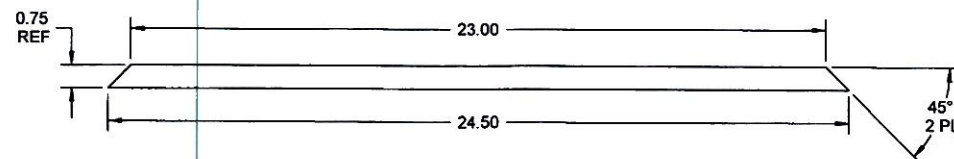
D4042-043 AFT RIB ASSEMBLY

NOTES:

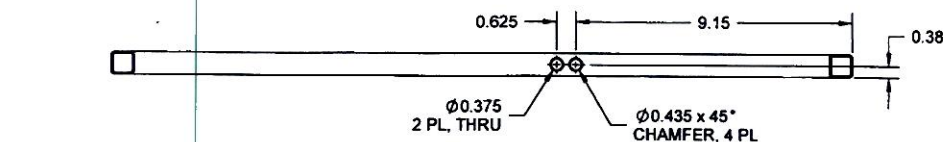
- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.91 lbs
- 8) WELD PER DART QSI 004

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JMP

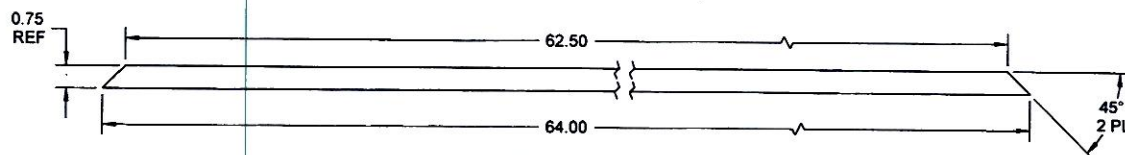
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4042	SHEET 9 OF 11
APPROVED		TITLE	SCALE
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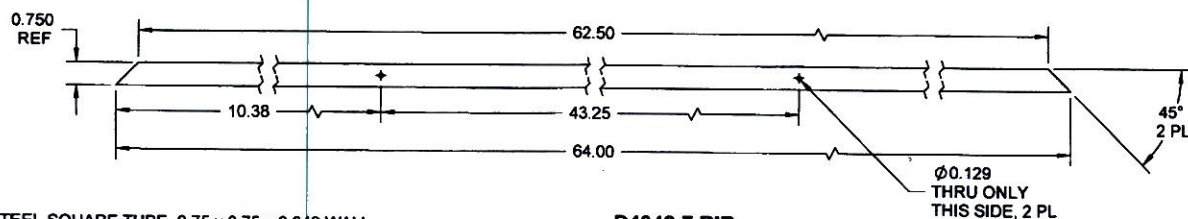
D4042-1 FWD RIB



D4042-3 AFT RIB



D4042-5 RIB



D4042-7 RIB

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.75 x 0.75 x 0.049 WALL
REF DART SPEC. M304TS0.750W.049
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D4042-1: 0.89 lbs
D4042-3: 0.88 lbs
D4042-5: 2.36 lbs
D4042-7: 2.36 lbs

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JMD

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CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4042	SHEET 10 OF 11
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	SHORT BASKET BASE ASSY	NTS
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